

Amendments to the Claims:

This listing of claims replaces all previous versions, and listings, of the claims in this application.

Claim 1. (original) A process for producing algae-resistant roofing granules, the process comprising:

- (a) providing inert base particles;
- (b) forming first intermediate particles by coating the inert base particles with a first mixture including;
 - at least one algaecidal material, and
 - a void-forming material, the void-forming material releasing gaseous material at temperatures above 90 °C, and having an average particle size no larger than 2 mm,
- to form a first layer on the inert base particles.

Claim 2. (original) The process of claim 1, the process further comprising

- (c) forming second intermediate particles by coating the first intermediate particles with a second mixture including a coloring material; and
- (d) heating the second intermediate particles to release the gaseous material and form pores in the first layer to produce the roofing granules.

Claim 3. (original) A process for producing algae-resistant roofing granules, the process comprising:

- (a) providing inert base particles;
- (b) forming first intermediate particles by coating the inert base particles with a first mixture including;
 - at least one algaecidal material, and
 - a void-forming material, the void-forming material releasing

gaseous material at temperatures above 90 °C, and having an average particle size no larger than 2 mm,

to form a first layer on the inert base particles;

(c) forming second intermediate particles by coating the first intermediate particles with a second mixture including a coloring material; and

(d) heating the second intermediate particles to release the gaseous material and form pores in the first layer to produce the roofing granules.

Claim 4. (original) A process according to claim 3 wherein the first mixture further includes a binder.

Claim 5. (original) A process according to claim 4 wherein the binder comprises an aluminosilicate material and an alkali metal silicate.

Claim 6. (original) A process according to claim 5 wherein the aluminosilicate material is selected from the group comprising clay.

Claim 7. (original) A process according to claim 3 wherein the second mixture further includes a binder.

Claim 8. (original) A process according to claim 7 wherein the binder comprises an aluminosilicate material and an alkali metal silicate.

Claim 9. (original) A process according to claim 3 wherein the at least one algaecidal material is selected from the group consisting of copper compounds and zinc compounds.

Claim 10. (original) A process according to claim 3 wherein the at least one algaecidal material is cuprous oxide.

Claim 11. (original) A process according to claim 10 wherein the cuprous oxide comprises at least 2 percent of the algae resistant granules.

Claim 12. (original) A process according to claim 3 wherein the at least one algaecidal material is zinc oxide.

Claim 13. (original) A process according to claim 12 wherein the zinc oxide comprise at least 0.1 percent by weight of the algae-resistant granules.

Claim 14. (original) A process according to claim 3 wherein the void-forming material comprises a substance selected from the group comprising ground walnut shells, sugar, and carbon black.

Claim 15. (original) A process according to claim 14 wherein the void-forming material comprises at least 0.1 percent by weight of the algae-resistant granules.

Claim 16. (original) A process according to claim 3 wherein the coloring material is selected from the group comprising transition metal oxides.

Claim 17. (original) A process according to claim 3 wherein the second intermediate particles are heated to a temperature of at least 500 degrees C.

Claim 18. (original) A process according to claim 3 wherein the granules have a pore size in the range of about 0.1 to 20 μm .

Claim 19. (original) A process according to claim 3 wherein the first intermediate layer has a thickness of about 30 μm .

Claim 20. (original) A process according to claim 3 wherein the second intermediate layer has a thickness of about 5 μm .

Claim 21. (original) A process according to claim 3 wherein the second mixture further includes a binder.

Claim 22. (original) A process according to claim 21 wherein the second mixture further includes a void-forming material.

Claim 23. (original) A process according to claim 21 wherein the second mixture further includes at least one algaecidal material.

Claim 24. (original) A process according to claim 21 wherein the second mixture further includes a void-forming material and at least one algaecidal material.

Claim 25. (original) A process for producing algae-resistant roofing granules, the process comprising:

- (a) providing inert base particles;
- (b) forming green granules by coating the inert base particles with a mixture including;
 - at least one algaecidal material, and
 - a void-forming material, the void-forming material releasing gaseous material at temperatures above 90 °C, and having an average particle size no larger than 2 mm,
 - at least one coloring material; and
 - a heat curable binder; and
- (c) heating the green granules to release the gaseous material to form pores and cure the binder to produce the roofing granules.

Claim 26. (withdrawn) A process for producing algae-resistant roofing shingles, the process comprising producing algae-resistant roofing granules, and adhering the granules to a shingle stock material, the algae-resistant roofing granules being produced by a process comprising:

- (a) providing inert base particles;
- (b) forming first intermediate particles by coating the inert base particles with a first mixture including;
 - at least one algaecidal material, and

a void-forming material, the void-forming material releasing gaseous material at temperatures above 90 °C, and having an average particle size no larger than 2 mm, to form a first layer on the inert base particles;

(c) forming second intermediate particles by coating the first intermediate particles with a second mixture including a coloring material; and

(d) heating the second intermediate particles to decompose the void-forming material and form pores in the first layer to produce the roofing granules.

Claim 27. (withdrawn) An algae-resistant roofing shingle produced by the process of claim 26.